

From the INTERNATIONAL SEARCHING AUTHORITY

To:			PCT					
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)					
			Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)					
	icant's or agent's file reference form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below					
International application No. International filing date (c) PCT/JP2004/004707 31.03.2004			day/month/year)	Priority date (day/month/year) 31.03.2003				
International Patent Classification (IPC) or both national classification and IPC H01L51/10, H01L51/40, H05B33/26								
Applicant CANON KABUSHIKI KAISHA								
2.	This opinion contains indications relating to the following items:  Box No.   Basis of the opinion Box No.    Priority Box No.    Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No.    Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. V  Certain documents cited Box No. V   Certain defects in the international application Box No. V   Certain observations on the international application FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("PEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
				1				
Nam	e and mailing address of the ISA:		Authorized Officer					

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International application No. PCT/JP2004/004707

_	Box	No. I	Basis of the opinion			
1.	With the	ith regard to the language, this opinion has been established on the basis of the international application in language in which it was field, unless otherwise indicated under this item.				
	. 🗆	langu	opinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search or Rules 12.3 and 23.1(b)).			
2.	With	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
	E	J as	sequence listing			
	C	□ tat	ple(s) related to the sequence listing			
	b. fo	ormat o	of material:			
	Ē	] in	written format			
	כ	□ in	computer readable form			
	c. tii	me of t	filing/furnishing:			
	[	⊐ со	ntained in the international application as filed.			
	0	□ file	ed together with the international application in computer readable form.			
		3. fur	nished subsequently to this Authority for the purposes of search.			
<b>3</b> .		has be copies	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional s is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.			
1	Δdd	litional	comments:			



International application No. PCT/JP2004/004707

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	Box No. II	Priority			·	· ·				
1.		The following document has not been furnished:								
	⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).								
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).								
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.	has be	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	Additional of	observations, if ne	cessary:							
		•							•	
	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Statement									
	Novelty (N)	1	Yes: No:	Claims Claims	1-9			. •		
	Inventive st	tep (IS)	Yes: No:	Claims Claims	1-9					
	Industrial a	pplicability (IA)	Yes: No:	Claims Claims	1-9					
2.	Citations ar	nd explanations					. <i>'</i>			

see separate sheet

#### Re Item V.

1 The following documents are referred to in this communication:

D1: US 6 146 913 A (RAFFERTY CONOR STEFAN) 14 November 2000 (2000-

11-14)

D2: US 6 344 380 B1 (KIM HYEON-CHEOL ET AL) 5 February 2002 (2002-02-

05)

Document D1 discloses (the references in parenthesis applying to this document):
A method for preparing enhanced performance field effect devices. In Fig. 4 an
FET device is shown, which comprises the relevant features according to claim 1
of the present application.

#### 2.1 INDEPENDENT CLAIM 1

As can be seen from the above, document D1 discloses in combination all the features defined in independent claim 1. Hence the subject-matter of this claim is not new (Article 33(2) PCT).

#### 2.2 INDEPENDENT CLAIM 4

As can be seen from the above, document D1 discloses in combination all the features defined in independent claim 4. Hence the subject-matter of this claim is not new (Article 33(2) PCT).

Document D2 discloses (the references in parenthesis applying to this document): Manufacture of gate electrodes with surface roughness in the range of claim 1 of the present application (see Figs. 2-4 and the relevant parts of the description).

#### 3.1 INDEPENDENT CLAIM 1

As can be seen from the above, document D2 discloses in combination all the features defined in independent claim 1. Hence the subject-matter of this claim is not new (Article 33(2) PCT).

### 3.2 INDEPENDENT CLAIM 4

As can be seen from the above, document D2 discloses in combination all the features defined in independent claim 4. Hence the subject-matter of this claim is not new (Article 33(2) PCT).

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/004707

## 4 DEPENDENT CLAIMS 2, 3, 5-9

Dependent claims 2, 3, 5-9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).